

## TCRA OPTIONS for Source Control / Source Stabilization

OPTION	DESCRIPTION	ADVANTAGE	DISADVANTAGE	RELATIVE COST
PRPs	NW Crn – ACM / Geo. Textile Fabric E Crn - sand	Inexpensive, Easy to construct	Structural instable, not compatible with NON-TCRA	Low
Steel Sheet Piling (SP)	Thin interlocking driven piles	Non-permeable, Structurally stable, Compatible w/ future NON-TCRA uses	Moderately expensive, Design needed prior to construction	Moderate
Vinyl / Composite SP	SP of synthetic material	Less expensive than steel SP, strong, easy to construct, corrosion free, Compatible w/ future NON-TCRA uses	Design needed prior to construction	Low - moderate
Gabion Walls	Formed plastic structure filled with rocks, connected w/ galvanized brackets	Flexible and very strong, support for erosion,	Walls water permeable, use as structural support system to contaminant wall	Moderate
Rock Revetment	Strategically placed rocks that protect shore line from erosion	Easy to construct, Minimal design,	For use as support system only to contaminant wall	Low-moderate
Geo-Tubes	Textile bags filled with sand and buried	Moderate difficulty construction, erosion control	Design needed, May be structurally insufficient for future Remedial uses	Low-moderate

DIRECTOR'S BRIEFING DOCUMENT  
TIME CRITICAL REMOVAL ACTION (TCRA)  
SAN JACINTO WASTE PITS SUPERFUND SITE

CURRENT STATUS

- Review PRPs TCRA proposal
- Review TRCA options for source control / source stabilization
- Finalize DRAFT TCRA action memo

CURRENT ACTIONS

- Finalize Time Critical Removal Action Memo (03/17/10)
- Finalize DRAFT Statement of Work (SOW) Time Critical Removal Action

FUTURE ACTIONS

- Meet with stakeholders to discuss TCRA (03/26/10)
- Begin TCRA construction (04/19/10)



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**Legend**  
 Preliminary Site Boundary  
 Original Perimeter of Impoundments

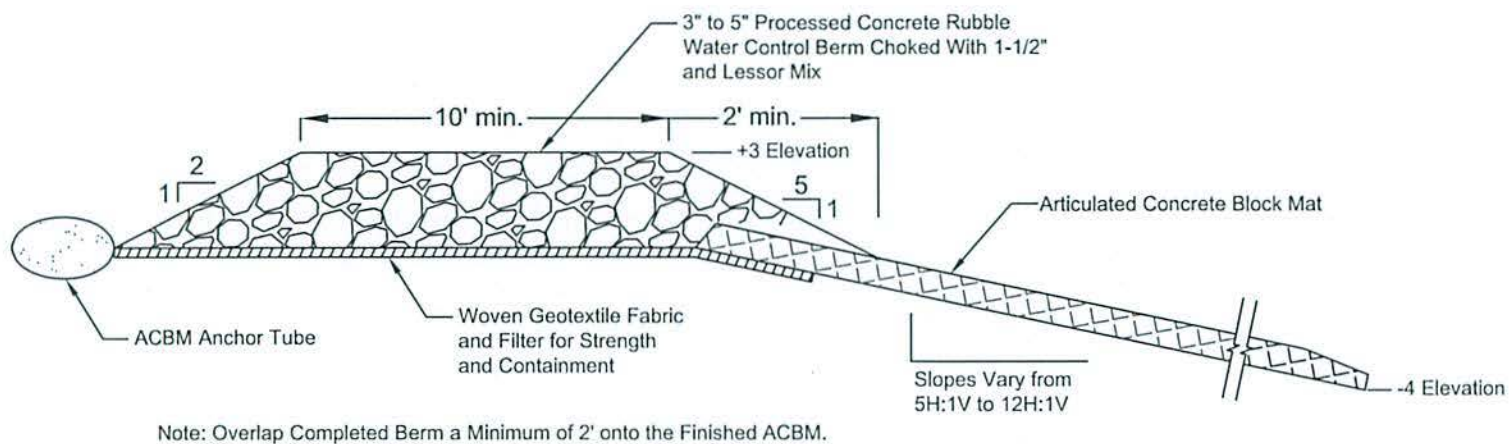
**FEATURE SOURCES:**  
 Aerial Imagery: 0.5-meter January 2009 DOQQs - Texas Strategic Mapping Program (StratMap).

**2,3,7,8-TCDD Equivalents (TEQs) in Surface Sediments\***

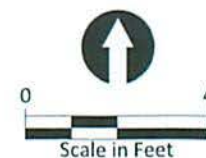
- TCEQ and USEPA (2006)
- University of Houston and Parsons (2006)
- ✚ URS (2010)

\* J = Estimated  
 (pg/g dw, ND=1/2DL, WHO 05)

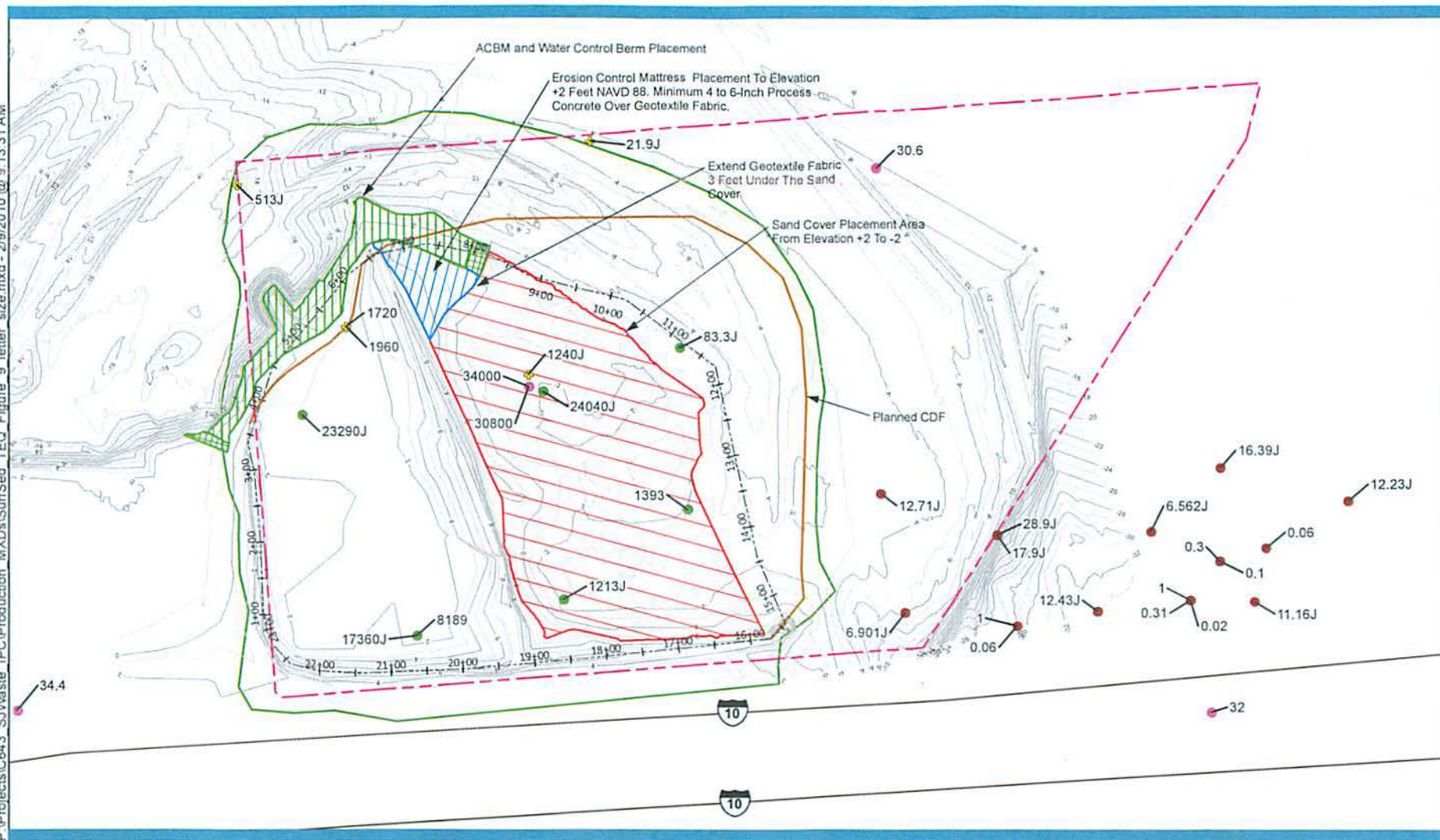
**Figure 5**  
 Sediment TEQs (WHO 2005, ng/kg dw)  
 Within the Original Impoundments  
 SJRWP Superfund/MIMC and IPC



HORIZONTAL DATUM: Texas South Central, NAD83. US Survey Feet.  
VERTICAL DATUM: NAVD 88.







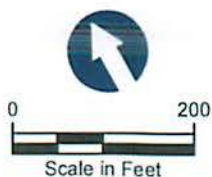
**integral**  
consulting inc.

- Original Perimeter of Impoundments
- Virgil C. McGinnes Trustee Parcel

#### 2,3,7,8-TCDD Equivalents (TEQs) in Surface Sediments\*

- TCEQ and USEPA (2006)
- University of Houston and Parsons (2006)
- Weston (2006)
- ✦ URS (2010)

\* J = Estimated  
(pg/g dw, ND=1/2DL, WHO 05)



FEATURE SOURCES:  
Drawing Prepared from COE  
Horizontal Datum: Texas South Central, NAD83, US Survey Feet  
Vertical Datum: NAVD 88

**Figure 8**  
Conceptual ACBM, Water Control Berm and Sand Cover  
SJRWP Superfund/MIMC and IPC

